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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/613,610	
	Filing Date	07-03-2003	
	First Named Inventor	Elan Yogeswaren	
	Art Unit	2856	
	Examiner Name	Charles Garber	
Total Number of Pages in This Submission	182	Attorney Docket Number	PAT023US

ENCLOSURES (Check all that apply)		
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<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Mark A. Thurmon Registry No. 39,858
Signature	
Date	9/21/04

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION:  
ELAN YOGESWAREN

SERIAL NO. 10/613,610

CONFIRMATION NO. 7309

FILED: July 3, 2003

FOR: ACOUSTIC SENSOR FOR  
DOWNHOLE MEASUREMENT  
TOOL

EXAMINER: Charles Garber

GROUP ART UNIT: 2856

Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty, under 37 C.F.R. § 1.56, 1.97 and 1.98, to disclose all relevant material, the Applicant lists below the following references believed to be relevant to the subject matter of the above-identified application:

## U.S. PATENT APPLICATIONS

	<u>Publication No.</u>	<u>Publication Date</u>	<u>Inventor</u>
1.	2002/0062992 A1	05-30-2002	Fredericks et al.
2.	2002/0096363 A1	07-25-2002	Evans et al.
3.	2002/0113717 A1	08-22-2002	Tang et al.
4.	2003/0002388 A1	01-02-2003	Mandal
5.	2003/0018433 A1	01-23-2003	Blanch et al.
6.	2003/0058739 A1	03-27-2003	Hsu et al.
7.	2003/0106739 A1	06-12-2003	Arian et al.
8.	2003/0114987 A1	06-19-2003	Edwards et al.

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Docket No. PAT023US

PATENT

9.	2003/0123326 A1	07-03-2003	Wisniewski et al.
10.	2003/0137302 A1	07-24-2003	Clark et al.
11.	2003/0137429 A1	07-24-2003	Clark et al.
12.	2003/0139884 A1	07-24-2003	Blanch et al.
13.	2003/0141872 A1	07-31-2003	Clark et al.
14.	2003/0150262 A1	08-14-2003	Han et al.
15.	2003/0167126 A1	09-04-2003	Horne et al.

U.S. PATENTS

	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>
1.	3,381,267	07-26-1966	Cubberly, Jr., et al.
2.	3,493,921	02-03-1970	Johns
3.	3,770,006	11-06-1973	Sexton et al.
4.	3,792,429	02-12-1974	Patton et al.
5.	3,867,714	02-18-1975	Patton
6.	4,450,540	05-22-1984	Mallett
7.	4,543,648	09-24-1985	Hsu
8.	4,594,691	06-10-1986	Kimball et al.
9.	4,649,526	03-10-1987	Winbow et al.
10.	4,682,308	07-21-1987	Chung
11.	4,698,792	10-06-1987	Kurkjian et al.
12.	4,698,793	10-06-1987	Wu
13.	4,700,803	10-20-1987	Mallett et al.
14.	4,774,693	09-27-1988	Winbow et al.
15.	4,832,148	05-23-1989	Becker et al.

Appl. No. 10/613,610  
Docket No. PAT023US

PATENT

16.	4,855,963	08-08-1989	Winbow et al.
17.	4,872,526	10-10-1989	Wignall et al.
18.	5,207,331	06-25-1991	Winbow et al.
19.	5,036,945	08-06-1991	Hoyle et al.
20.	5,077,697	12-31-1991	Chang
21.	5,109,698	05-05-1992	Owen
22.	5,229,553	07-20-1993	Lester et al.
23.	5,265,067	11-23-1993	Chang
24.	5,278,805	01-11-1994	Kimball
25.	5,331,604	07-19-1994	Chang et al.
26.	5,387,767	02-07-1995	Aron et al.
27.	5,510,582	04-23-1996	Birchak et al.
28.	5,544,127	08-06-1996	Winkler
29.	5,644,186	07-01-1997	Birchak et al.
30.	5,661,696	08-25-1997	Kimball et al.
31.	5,678,643	10-21-1997	Robbins et al.
32.	5,726,951	03-10-1998	Birchak et al.
33.	5,753,812	05-19-1998	Aron et al.
34.	5,784,333	07-21-1998	Tang et al.
35.	5,808,963	09-15-1998	Esmer soy
36.	5,831,934	11-03-1998	Gill et al.
37.	5,852,587	12-22-1998	Kostek et al.
38.	5,899,958	05-04-1999	Dowell et al.
39.	5,936,913	08-10-1999	Gill et al.

40.	5,960,371	09-28-1999	Saito et al.
41.	6,067,275	05-23-2000	Sayers
42.	6,082,484	07-04-2000	Molz et al.
43.	6,088,294	07-11-2000	Leggett, III et al.
44.	6,102,152	08-15-2000	Masino et al.
45.	6,147,932	11-14-2000	Drumheller
46.	6,188,647-B1	02-13-2001	Drumheller
47.	6,208,585-B1	03-27-2001	Stroud
48.	6,308,137-B1	10-23-2001	Underhill et al.
49.	6,320,820-B1	11-20-2001	Gardner et al.
50.	6,405,136-B1	06-11-2002	Li et al.
51.	6,459,993-B1	10-01-2002	Valero et al.
52.	6,477,112-B1	11-05-2002	Tang et al.
53.	6,480,118-B1	11-12-2002	Rao
54.	6,535,458-B2	03-18-2003	Meehan
55.	6,543,281-B2	04-08-2003	Pelletier et al.
56.	6,568,486-B1	05-27-2003	George
57.	6,614,716-B2	09-02-2003	Plona et al.
58.	6,615,949-B1	09-09-2003	Egerev et al.
59.	6,618,322-B1	09-09-2003	Georgi
60.	6,625,541-B1	09-23-2003	Shenoy et al.
61.	6,654,688-B1	11-25-2003	Brie et al.
62.	6,671,380-B2	12-30-2003	Chang et al.

FOREIGN PATENT DOCUMENTS

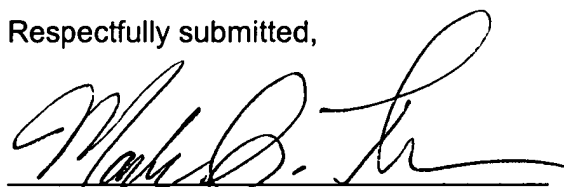
	<u>Foreign Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
1.	CA2346546	11-22-2001	Schlumberger Canada
2.	EP0375549-A2	06-27-1990	Schlumberger Limited
3.	EP1158138-A2	11-28-2001	Schlumberger
4.	GB2381847-A	05-14-2003	Schlumberger Holdings Limited
5.	WO 00/72000-A1	11-30-2000	Baumol et al.

Applicant respectfully submits that the invention in the above-identified application is patentably distinguishable over the cited references known to Applicant and disclosed in the above Supplemental Information Disclosure Statement.

This Supplemental Information Disclosure Statement is being filed **after** three months following the filing date of this application, but **before** the first Office Action on the merits. 37 C.F.R. § 1.97(b).

Date: 9/21/04

Respectfully submitted,



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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 3

**Complete if Known**

Application Number	10/613,610
Filing Date	07-03-2003
First Named Inventor	Elan Yogeswaren
Art Unit	2856
Examiner Name	Charles Garber
Attorney Docket Number	PAT023US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)				
	AA	US-	20020062992-A1	05-30-2002	Fredericks et al.	
	AB	US-	20020096363-A1	07-25-2002	Evans et al.	
	AC	US-	20020113717-A1	08-22-2002	Tang et al.	
	AD	US-	20030002388-A1	01-02-2003	Mandal	
	AE	US-	20030018433-A1	01-23-2003	Blanch et al.	
	AF	US-	20030058739-A1	03-27-2003	Hsu et al.	
	AG	US-	20030106739-A1	06-12-2003	Arian et al.	
	AH	US-	20030114987-A1	06-19-2003	Edwards et al.	
	AI	US-	20030123326-A1	07-03-2003	Wisniewski et al.	
	AJ	US-	20030137302-A1	07-24-2003	Clark et al.	
	AK	US-	20030137429-A1	07-24-2003	Clark et al.	
	AL	US-	20030139884-A1	07-24-2003	Blanch et al.	
	AM	US-	20030141872-A1	07-31-2003	Clark et al.	
	AN	US-	20030150262-A1	08-14-2003	Han et al.	
	AO	US-	20030167126-A1	09-04-2003	Horne et al.	
	AP	US-	3,381,267	07-26-1966	Cubberly, Jr., et al.	
	AQ	US-	3,493,921	02-03-1970	Johns	
	AR	US-	3,770,006	11-06-1973	Sexton et al.	
	AS	US-	3,792,429	02-12-1974	Patton et al.	
	AT	US-	3,867,714	02-18-1975	Patton	
	AU	US-	4,450,540	05-22-1984	Mallett	
	AV	US-	4,543,648	09-24-1985	Hsu	
	AW	US-	4,594,691	06-10-1986	Kimball et al.	
	AX	US-	4,649,526	03-10-1987	Winbow et al.	
	AY	US-	4,682,308	07-21-1987	Chung	
	AZ	US-	4,698,792	10-06-1987	Kurkjian et al.	
	AAA	US-	4,698,793	10-06-1987	Wu	
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	AAE	CA	2346546	11-22-2001	Schlumberger Canada		
	AAF	EP	0375549-A2	06-27-1990	Schlumberger Limited		
	AAG	EP	1158138-A2	11-28-2001	Schlumberger Limited		
	AAH	GB	2381847-A	05-14-2003	Schlumberger Holdings Limited		
	AAI	WO	0072000-A1	11-30-2000	Baumoe et al.		

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>1</sup>
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Attorney Docket Number	PAT023US

Sheet 2 of 3

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Examiner Initials*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)				
	BA	US-	4,855,963	08-08-1989	Winbow et al.	
	BB	US-	4,872,526	10-10-1989	Wignall et al.	
	BC	US-	5,207,331	06-25-1991	Winbow et al.	
	BD	US-	5,036,945	08-06-1991	Hoyle et al.	
	BE	US-	5,077,697	12-31-1991	Chang	
	BF	US-	5,109,698	05-05-1992	Owen	
	BG	US-	5,229,553	07-20-1993	Lester et al.	
	BH	US-	5,265,067	11-23-1993	Chang	
	BI	US-	5,278,805	01-11-1994	Kimball	
	BJ	US-	5,331,604	07-19-1994	Chang et al.	
	BK	US-	5,387,767	02-07-1995	Aron et al.	
	BL	US-	5,510,582	04-23-1996	Birchak et al.	
	BM	US-	5,544,127	08-06-1996	Winkler	
	BN	US-	5,644,186	07-01-1997	Birchak et al.	
	BO	US-	5,661,696	08-25-1997	Kimball et al.	
	BP	US-	5,678,643	10-21-1997	Robbins et al.	
	BQ	US-	5,726,951	03-10-1998	Birchak et al.	
	BR	US-	5,753,812	05-19-1998	Aron et al.	
	BS	US-	5,784,333	07-21-1998	Tang et al.	
	BT	US-	5,808,963	09-15-1998	Esmersoy	
	BU	US-	5,831,934	11-03-1998	Gill et al.	
	BV	US-	5,852,587	12-22-1998	Kostek et al.	
	BW	US-	5,899,958	05-04-1999	Dowell et al.	
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	BBA	US-	6,082,484	07-04-2000	Molz et al.	
	BBB	US-	6,088,294	07-11-2000	Leggett, III et al.	
	BBC	US-	6,102,152	08-15-2000	Masino et al.	
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<b>Examiner Name</b>	Charles Garber
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Sheet	3	of	3
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